इंटरनेट मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

"जानने का अधिकार, जीने का अधिकार"
Mazdoor Kisan Shakti Sangathan
"The Right to Information, The Right to Live"

"पुराने को छोड नये के तरफ"
Jawaharlal Nehru
"Step Out From the Old to the New"

IS 7516 (1974): Trap Nests for Poultry [FAD 5: Livestock Feeds, Equipment and Systems]

"ज्ञान से एक नये भारत का निर्माण"
Satyanarayan Gangaram Pitroda
"Invent a New India Using Knowledge"

Act Number 22 of 2005
The Indian Parliament
RIGHT TO INFORMATION

Made Available By
Public.Resource.Org

"ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है"
Bhartṛhari—Nītiśatakam
"Knowledge is such a treasure which cannot be stolen"

BLANK PAGE

BRUTUM FULMEN
IGNORANTIA JURIS NON EXCUSAT
PROTECTED BY COPYRIGHT

IS : 7516 - 1974

(Reaffirmed 2000)

Indian Standard

SPECIFICATION FOR TRAP NESTS FOR POULTRY

(First Reprint MARCH 1983)

UDC 636·5·083·312·5 : 631·227·2·016

© *Copyright* 1975

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Gr 2 *April* 1975

Indian Standard
SPECIFICATION FOR TRAP NESTS FOR POULTRY

Animal Housing and Equipment Sectional Committee, AFDC 17

Chairman	*Representing*
Dr M. N. Menon	Ministry of Agriculture (Department of Agriculture)
Members	
Joint Commissioner (Livestock Production) to the Government of India (*Alternate* to Dr M. N. Menon)	
Dr N. R. Bhasin	Director of Animal Husbandry, Government of Rajasthan, Jaipur
Dr D. S. Bhandari (*Alternate*)	
Dr R. P. Chaudhary	G. B. Pant University of Agriculture & Technology, Nainital
Shri Rattan Singh Dyal	Director of Animal Husbandry, Government of Haryana, Chandigarh
Shri K. R. Suri (*Alternate*)	
Shri H. Guha	Directorate of Animal Husbandry, Government of West Bengal, Calcutta
Shri S. Gupta (*Alternate*)	
Dr Gurcharan Singh	Indian Agricultural Research Institute (ICAR), New Delhi
Shri Harbhajan Singh	Director of Animal Husbandry, Government of Punjab, Chandigarh
Shri Amar Singh Walia (*Alternate*)	
Head, Division of Milk Production & Enhancement	Indian Dairy Corporation, Baroda
Shri V. N. Kak	In personal capacity (*Vasundhara Farms, Jaipur*)
Shri P. P. Karumbiah	Directorate of Animal Husbandry, Government of Karnataka, Mysore
Lt-Col L. C. Katoch	Directorate of Remounts & Veterinary Services, Quartermaster General's Branch, Army Headquarters, New Delhi
Maj A. G. Bhasker Singh (*Alternate*)	
Dr R. Nagarcenkar	National Dairy Research Institute (ICAR), Karnal
Dr S. R. Sampath (*Alternate*)	
Shri Y. P. Neb	Ministry of Agriculture (Department of Agriculture)
Col A. S. Sangwani	Directorate of Military Farms, Quartermaster General's Branch, Army Headquarters, New Delhi
Shri Shahid Ali (*Alternate*)	

(*Continued on page* 2)

© *Copyright* 1975
INDIAN STANDARDS INSTITUTION
This publication is protected under the *Indian Copyright Act* (XIV of 1957) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

(*Continued from page* 1)

Members	*Representing*
Shri B. A. Shiraji	Director of Animal Husbandry, Government of Andhra Pradesh, Hyderabad
Shri D. Sanjeeva Reddy (*Alternate*)	
Dr C. M. Singh	Indian Veterinary Research Institute (ICAR), Izatnagar
Dr P. N. Bhatt (*Alternate*)	
Superintending Surveyor of Works	Central Public Works Department, New Delhi
Dr G. C. Taneja	Central Arid Zone Research Institute (ICAR), Jodhpur
Dr P. K. Ghosh (*Alternate*)	
Dr Hari Bhagwan, Director (Agri & Food)	Director General, ISI (*Ex-officio Member*)

Secretary

Shri S. K. Sud
Deputy Director (Agri & Food), ISI

Poultry Housing and Equipment Subcommittee, AFDC 17 : 3

Convener	
Shri J. N. Panda	Ministry of Agriculture (Department of Agriculture)

Members	
Shri Harbhajan Singh	Directorate of Animal Husbandry, Government of Punjab, Chandigarh
Honorary Secretary	Rajasthan Krishak Samaj, Jodhpur
Shri Kabal Singh	Dayal Poultry Appliances, New Delhi
Shri S. C. Mahapatra	Indian Veterinary Research Institute (ICAR), Izatnagar
Dr P. V. Rao (*Alternate*)	
Shri C. W. Masand	Masand Industries, Jullundur
Professor and Head of the Department of Animal Production	College of Veterinary Science and Animal Husbandry, Jabalpur
Dr C. V. Reddy	Andhra Pradesh Agricultural University, Hyderabad
Dr A. P. Sachdev	Universal Poultry Farms, New Delhi
Dr H. P. Tandon	Directorate of Extension (Ministry of Agriculture), New Delhi
Dr G. C. Taneja	Central Arid Zone Research Institute (ICAR), Jodhpur

Indian Standard

SPECIFICATION FOR TRAP NESTS FOR POULTRY

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 23 December 1974, after the draft finalized by the Animal Housing and Equipment Sectional Committee had been approved by the Agricultural and Food Products Division Council.

0.2 Trap nests are used to record the individual performance of laying birds for estimating their productivity or genetic potentialities. The mechanism of trap nests is such that when a bird enters into it for laying eggs, it is trapped inside until it is released by egg collector.

0.3 The trap nests are available in various shapes, sizes, and designs and are made up of galvanized steel sheets or wooden planks. The materials of construction also vary considerably. Considering these variations, the Committee felt it necessary to lay down an Indian Standard stipulating essential requirements and performance of the trap nests for facilitating bulk transactions.

0.3.1 The figures given in this specification are meant only for illustration of the type and typical designs.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes the requirements for materials, construction and dimensions of trap nests and trap doors for poultry.

2. TERMINOLOGY

2.0 For the purpose of this standard, the following definition shall apply.

2.1 Trap Nest — The nest with mechanism for trapping individual laying bird for recording its egg production.

---

*Rules for rounding off numerical values (*revised*).

3. MATERIALS

3.1 The materials used for the construction of various parts of trap nests shall be as given in col 3 of Table 1. The material should, as far as possible, conform to Indian Standards indicated in col 5 of Table 1.

TABLE 1 MATERIAL FOR TRAP NEST

(*Clause* 3.1)

SL No. (1)	PART (2)	MATERIAL (3)	SIZE, *Min* (mm) (4)	APPLICABLE INDIAN STANDARD (5)
i)	Body	Galvanized steel sheets or Seasoned light wood	0·63 12·5	IS:277-1969* IS:399-1963†
ii)	Trap door	Galvanized steel sheets or Mild steel wire	0·63 5·0	IS:277-1969* IS:280-1962‡
iii)	Perch supports and legs	Mild steel (angle section)	30×20×4	IS:808-1967§
iv)	Perching step	Seasoned hard wood	20	IS:399-1963†

*Specification for galvanized steel sheets (plain and corrugated) (*second revision*).
†Classification of commercial timbers and their zonal distribution (*revised*).
‡Specification for mild steel wire for general engineering purposes (*revised*).
§Specification for rolled steel beam, channel and angle sections (*revised*).

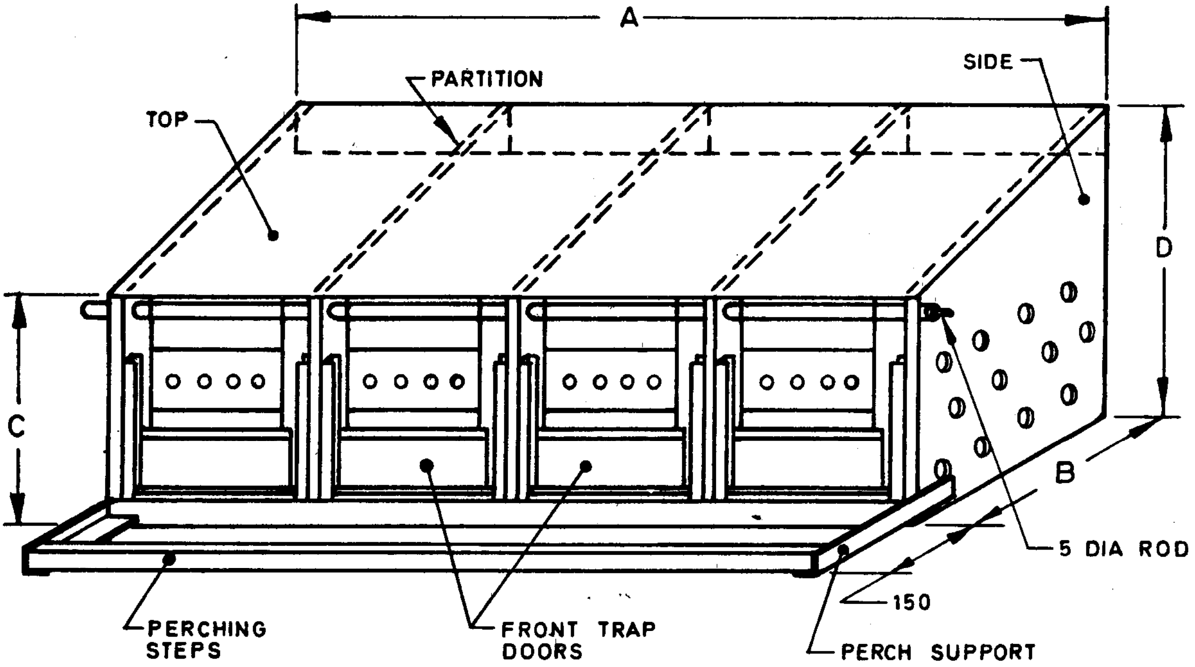
NOTE — The mild steel wire shall be galvanized.

4. DIMENSIONS

4.1 The dimensions of a typical four-compartment trap nest, when read in conjunction with Fig. 1, should be as given below:

Particulars	*Light Breed* (mm)	*Heavy Breed* (mm)
Length, *Min* (*A*)	1 200	1 500
Breadth, *Min* (*B*)	350	375
Front height, *Min* (*C*)	350	375
Back height, *Min* (*D*)	500	500

NOTE — Depending upon the need of the purchaser, the trap nest may be of 2 to 3 compartments as well and its size should be proportionately reduced.



All dimensions in millimetres.

FIG. 1 A TYPICAL FOUR COMPARTMENT TRAP NEST

5. COMPARTMENTS AND PARTITIONS

5.1 Compartments — The number of compartments shall depend on the size of breeding pen and number of pullets for which it is required to be used. One compartment should be used for trapping 3 to 4 pullets.

5.2 Partitions — In case of a four-compartment trap nest there shall be three partitions at equal distance. Each partition and the two side walls shall have at least 12 die punched holes for ventilation each of minimum 10 mm diameter.

6. TRAP DOORS

6.1 Each compartment shall have trap door fitted in front and made of either 0·63 mm galvanized steel sheet (*see* Fig. 2), or of 5 mm galvanized steel wire (*see* Fig. 3). In case of galvanized sheet doors, trap door should consist of two parts. The upper part shall have at least four die punched holes for ventilation each of minimum 20 mm diameter and a rod of 5 mm diameter fitted on both sides forming a semi-circular ring of 15 mm diameter on top and a similar ring on bottom for hanging the lower part of the trap door.

6.1.1 The lower part at its top shall be fitted with a rod of 5 mm diameter. The bottom end should also have a rod of 5 mm diameter so that the two ends of this lower rod projecting about 20 mm on each side should smoothly play up and down in two 15 × 15 mm galvanized steel sheet channels, fitted on both sides in front of each compartment.

NOTE — Doors should be so adjusted that when folded up they should have clear sufficient space for a bird just to get in and they should close soon after the bird enters the nest. The doors should not be opened either by the bird from inside or by another bird from outside.

7. BACK SIDE

7.1 The back of the trap nests should be wire netted with hole size of 12·5 mm diameter up to 150 mm from the top. A folding type lid for the removal of birds for recording data should be fitted below the wire netting to cover the open gap. The lid should be hinged at the bottom and properly secured with the wire netting at the top.

NOTE — In case trap nests are fitted on a side of a wall, back fittings are not needed.

8. FRONT AND BACK SUPPORTS

8.1 To prevent falling of litter from compartments of the trap nest, a 75-mm high galvanized steel sheet support or a wooden support, upper edge of which is properly bevilled to prevent injury to birds, shall be fitted at the bottom in front all along the length of trap nest. A similar 100-mm high support shall be fitted on back side to prevent falling of litter.

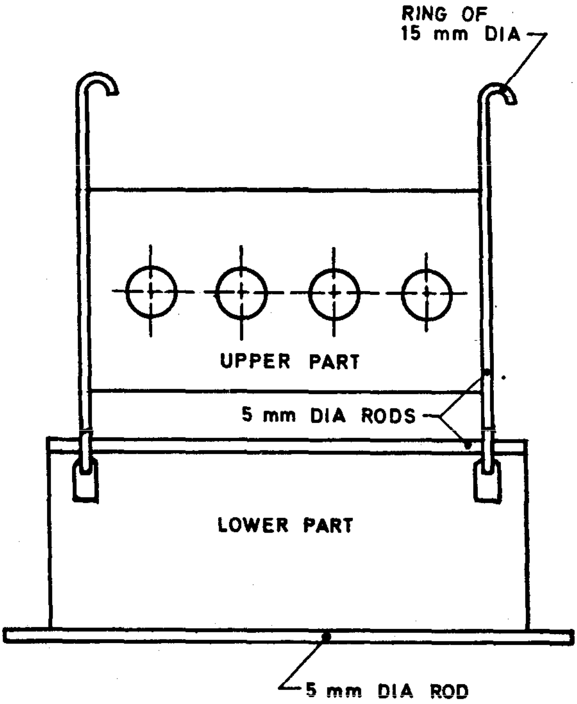


FIG. 2 A TYPICAL GALVANIZED STEEL SHEET TRAP DOOR

9. PERCHING STEP

9.1 One wooden strip 60 mm wide, 20 mm thick and equal to the length of the nest shall be fitted in front of the compartment to enable the birds to step over it for entering the compartment. Angle iron section shall be fitted on both sides to support the perching step. The projecting part of the angle on which wooden step is bolted should be 150 mm long and have two additional holes for adjusting the position of wooden step. Other suitable materials may also be used.

10. FITTINGS

10.1 The trap nest may be placed on two angle iron bars fixed to the wall at about 450 to 600 mm height. Alternatively, the trap nest may be provided with legs of approximately 250 mm height made of angle iron section.

11. MARKING AND PACKING

11.1 Marking — Each trap nest shall be marked legibly and indelibly with the following particulars :

a) Manufacturer's name or trade-mark,

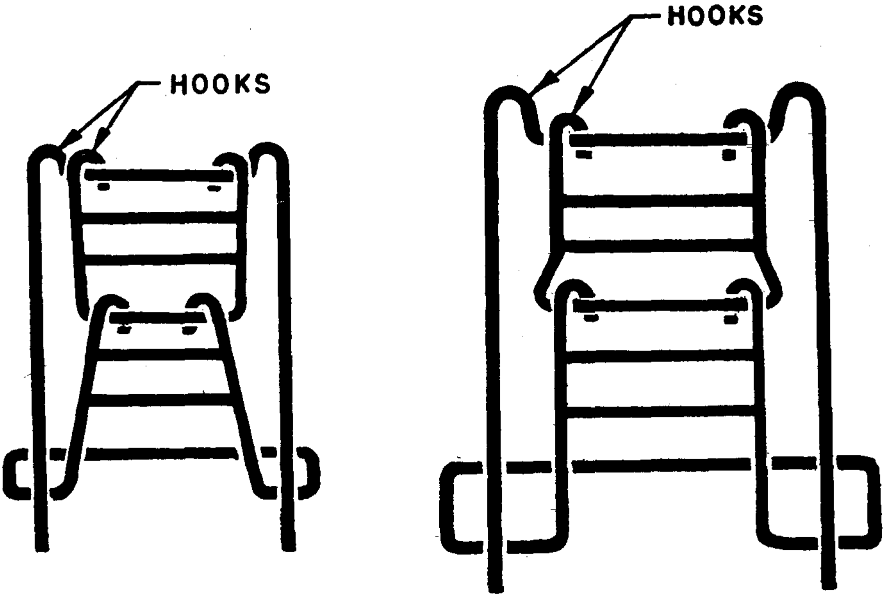


FIG. 3 A TYPICAL GALVANIZED STEEL WIRE TRAP DOOR

b) Manufacturer's model or type reference,
c) Number of compartments,
d) Year of manufacture, and
e) Any other information.

11.1.1 Each trap nest may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

11.2 Packing — The trap nests shall be packed as agreed to between the purchaser and the supplier.

12. TESTS

12.1 Stability Test — The trap nests should be stable and should not be overturned under normal operating conditions.

12.2 Trap Door Test — When a bird is already trapped, the door should not be opened by light pressing by the birds from outside.

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

QUANTITY	UNIT	SYMBOL
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

QUANTITY	UNIT	SYMBOL
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

QUANTITY	UNIT	SYMBOL	DEFINITION
Force	newton	N	1 N = 1 $kg.m/s^2$
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m^2
Frequency	hertz	Hz	1 Hz = 1 c/s (s^{-1})
Electric conductance	siemens	S	1 S = 1 A/V
Electromotive force	volt	V	1 V = 1 W/A
Pressure, stress	pascal	Pa	1 Pa = 1 N/m^2

INDIAN STANDARDS INSTITUTION

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones : 26 60 21, 27 01 31 **Telegrams : Manaksanstha**

Regional Offices:

			Telephone
Western	Novelty Chambers, Grant Road	BOMBAY 400007	37 97 29
Eastern	5 Chowringhee Approach	CALCUTTA 700072	27 50 90
Southern	CIT Campus	MADRAS 600113	41 24 42
Northern	B69, Phase VII	S. A. S. NAGAR (MOHALI) 160051	—

Branch Offices:

'Pushpak', Nurmohamed Shaikh Marg, Khanpur	AHMADABAD 380001	2 03 91
'F' Block, Unity Bldg, Narasimharaja Square	BANGALORE 560002	22 48 05
Gangotri Complex, Bhadbhada Road, T.T. Nagar	BHOPAL 462003	6 27 16
22E Kalpana Area	BHUBANESHWAR 751014	5 36 27
5-8-56C L. N. Gupta Marg	HYDERABAD 500001	22 10 83
R 14 Yudhister Marg, C Scheme	JAIPUR 302005	6 98 32
117/418 B Sarvodaya Nagar	KANPUR 208005	4 72 92
Patliputra Industrial Estate	PATNA 800013	6 28 08
Hantex Bldg (2nd Floor), Rly Station Road	TRIVANDRUM 695001	32 27

Printed at Simco Printing Press, Delhi, India